

**TEXAS A&M UNIVERSITY-CORPUS CHRISTI**  
**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING- TENTATIVE DEGREE PLAN**  
**2020-21 CATALOG YEAR**

Name: \_\_\_\_\_  
 ID#: \_\_\_\_\_

**IMPORTANT NOTES:**

- Students are responsible for achieving a 2.25 GPA in their major to graduate as well as meeting all graduation minimums
- Any changes/exceptions to this Degree Plan must be filed via the Undergraduate Degree Plan Exceptions Form (see your advisor FMI)
- See your Faculty Mentor every semester (RECOMMENDED). See your Academic Advisor as needed.
- This degree plan remains an unofficial document until certified by the Dean of the College of Science & Engineering .
- Prerequisites and semesters offered are subject to change with each catalog year
- Students are responsible for taking courses in the proper sequence to ensure orderly progression of work
- You must maintain a minimum GPA of 2.0 throughout your academic career to avoid Academic Probation or Suspension
- Upper division classes are any 3xxx or 4xxx level classes, you must have 45 upper division hrs to graduate

**UNIVERSITY CORE CURRICULUM**

	Grade	Hrs	Prerequisites
COMM 1311 FOUNDATION OF COMMUNICATION	3	n/a	
ENGL 1302 COMPOSITION II	3	n/a	
MATH 2413 <b>CALCULUS I</b>	4	Math placement (see catalog prerequisites)	
CHEM 1411 <b>GENERAL CHEMISTRY I</b>	4	Math 1314	
PHYS 2425 <b>UNIVERSITY PHYSICS I</b>	4	Math 2413	
LANGUAGE, PHILOSOPHY & CULTURE CHOOSE ONE: ENGL 2332,2333,2334 OR 2335 OR SPAN 3307,3308, 3309 OR 3310 OR PHIL 1301 OR 2306	3	n/a	
HIST 1301 US HISTORY TO 1865	3	n/a	
HIST 1302 US HISTORY SINCE 1865	3	n/a	
POLS 2305 US GOVT & POLITICS	3	n/a	
POLS 2306 STATE/LOCAL POLITICS	3	n/a	
CREATIVE ARTS CHOOSE ONE: ARTS 1301 OR 1303, MUSI 1306 OR 1307 OR THEA 1310 OR 1351 OR COMM 1305	3	n/a	
SOC SCIENCE COMPONENT PSYC 2301 OR SOCI 1301 OR ECON 2301 OR 2302	3	n/a	
AREA OPTION <b>MATH 2414 CALCULUS II</b>	4	n/a	

**COMMON ENGINEERING, MATH & SCIENCE COURSES**

<i>CHEM 1411, MATH 2413, MATH 2414, PHYS 2425</i>	<i>SEE ABOVE</i>		
CHEM 1411 GENERAL CHEMISTRY	(4)		
COSC 1330 PROGRAMMING FOR SCIENTISTS, ENGINEERS & MATHEMATICIANS	3	Math 1314 or beyond	
ENGR 1211 INTRODUCTION TO ENGINEERING	2	n/a	
ENGR 1312 ENGINEERING GRAPHICS I	3	Engr 1211	
ENGR 3316 THERMODYNAMICS	3	Phys 2425, Math 2414	
ENGR 3322 MATERIALS SCIENCE	3	Phys 2425	
ENGR 2325 STATICS	3	Phys 2425	
ENGR 2460 CIRCUIT ANALYSIS	3	PHYS 2425, MATH 2414	
ENGR 3350 MANUFACTURING PROCESSES	3	Engr 1312, Engr 3320 and Engr 2326	
ENGR 4240 PROJECT MANAGEMENT	2	Taken Semester preceding ENGR 4370; Pre-requisite: Meen 3330 + Meen 3345, or Eeen 3330, Eeen 3310, and Eeen 3350.	
ENGR 4420 ENGINEERING LAB MEASUREMENTS	3	ENGR 2460 Circuit Analysis ( or equivalent)	
MATH 2413 CALCULUS I	(4)	Math placement (see catalog prerequisites)	
MATH 2414 CALCULUS II	(4)	Math 2413 GRADE OF "C or BETTER"	
MATH 2415 CALCULUS III	4	Math 2414 GRADE OF "C OR BETTER"	
MATH 3311 LINERAR ALGEBRA	3	Math 2413 GRADE OF "C OR BETTER"	
MATH 3315 DIFFERENTIAL EQUATIONS	3	Math 2414 GRADE OF "C OR BETTER"	
MATH 3342 APPLIED PROBABILITY & STATISTICS	3	Math 2413	
PHYS 2425 UNIVERSITY PHYSICS I	(4)	Math 2413	
PHYS 2426 UNIVERSITY PHYSICS II	4	Phys 2425 and Math 2414	

**REQUIRED INDUSTRIAL ENGINEERING COURSES**

IEEN 2302 ENGINEERING ECONOMICS (fall and spring)	3	MATH 2413
IEEN 3302 OPERATIONS RESEARCH (fall and spring)	3	PREREQ: MATH 2414, CO:REQ MATH 3311 PREREQ: ENGR 1312, COREQ MATH 3342
IEEN 3320 HUMAN FACTORS (fall and spring)	3	3342
IEEN 3324 HUMAN COMPUTER INTERFACE (fall and spring)	3	PREREQ: ENGR 1312, COREQ: IEEN 3320
IEEN 3330 ROBOTICS AND AUTOMATION (fall and spring)	3	ENGR 2460
IEEN 4312 EXPERIMENTAL DESIGN AND ANALYSIS (fall and spring)	3	IEEN 3302 and IEEN 3320
IEEN 4330 DIGITAL SYSTEMS SIMULATION (fall and spring)	3	IEEN 3302

**TECHNICAL ELECTIVES BLOCK (THREE COURSES FROM THE FOLLOWING LIST FOR A TOTAL OF 9 HRS.)**

**SELECT THREE OF THE FOLLOWING COURSES:**

IEEN 4310 PROCESS ENGINEERING (fall)	3	IEEN 3330
IEEN 4322 COGNITIVE ERGONOMICS (fall)	3	IEEN 3320
IEEN 4324 HUMAN FACTORS AND AUTONOMOUS SYSTEMS (fall)	3	IEEN 3320
IEEN 4326 AIRBORNE DESIGN OF EXPERIMENTS (fall and spring)	3	IEEN 3302
IEEN 4332 DISTRIBUTION CENTER DESIGN AND OPERATION (fall and spring)	3	IEEN 3330
IEEN 4334 SCHEDULING AND SEQUENCING (fall and spring)	3	IEEN 3302
MEEN 3335 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3	Junior Level standing PSYC 3411 (this course has a prereq of
PSYC 3342 COGNITIVE PSYCHOLOGY	3	MATH 1442 or equivalent) PSYC 3411 (this course has a prereq of
PSYC 4352 PHYSIOLOGICAL PSYCHOLOGY	3	MATH 1442 or equivalent)

**CAPSTONE PROJECT:**

ENGR 4370 CAPSTONE PROJECT	3	Prereq: ENGR 4240; Coreq/Prereq: MEEN 4360 and MEEN 4365 OR EEEN 4333 or CEEN 4304 or IEEN 4310
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**UNIVERSITY REQUIREMENTS**

FOREIGN LANGUAGE (2 SEMESTERS)		Met via HS Transcript or College-level course
UNIV 1101 FIRST-YEAR SEMINAR	1	n/a
UNIV 1102 FIRST-YEAR SEMINAR	1	n/a

**TOTALS FOR DEGREE PLAN**

TOTAL HOURS:	<b>125</b>	<b>123 WITH NO UNIV</b>
TOTAL UPPER DIVISION HOURS (MIN 45)	<b>53</b>	